Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Geometry Part 2 Test Study Guide

**Standard to be Assessed: MGSE7.G6** Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

**You may find the following formulas helpful:**

Area of a Square or Rectangle: or Area of a Triangle: or

Volume of Rectangular Prism: Volume of Triangular Prism:

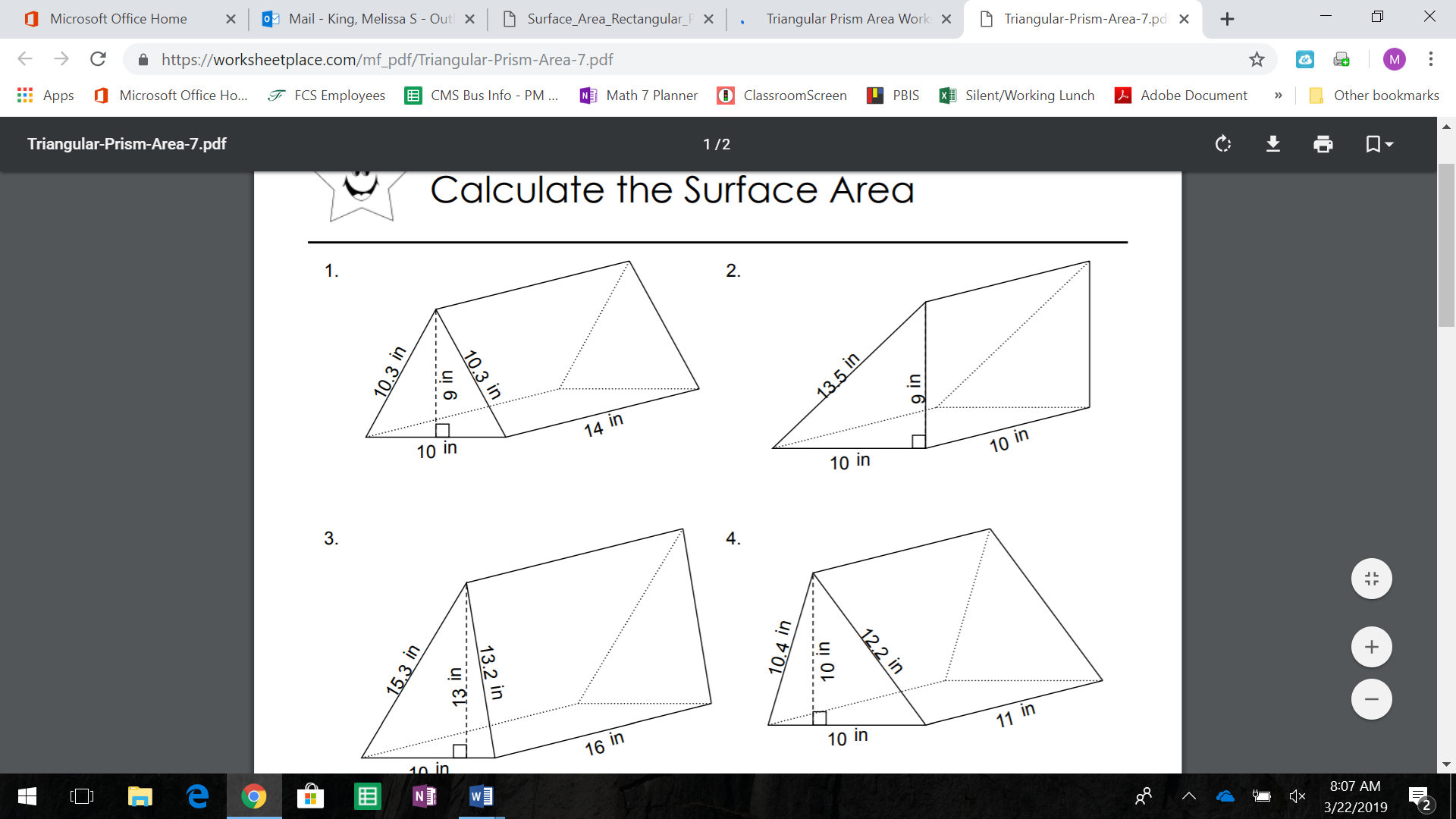
**Find the volume of each prism. Show all work. Include units of measurement with your answers.**

|  |  |
| --- | --- |
| **1.** Hint: Rewrite as mixed decimals by converting the fractions to decimals (divide the numerator by the denominator.)    **Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **2.**  AHC2_174_7.jpg  **Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **3.**  AHC2_182_2.jpg  **Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **4.**    **Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **5.**    **Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **6.**  Image result for volume of a composite figure**Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**For #7 – 9, complete the F-A-T table to calculate the surface area of each prism. Show all work. Include units of measurement with you answers.**

|  |  |  |
| --- | --- | --- |
| Faces | Area | Total |
| Triangle 1  Triangle 2 |  |  |
| Rectangle 1 |  |  |
| Rectangle 2  Rectangle 3 |  |  |

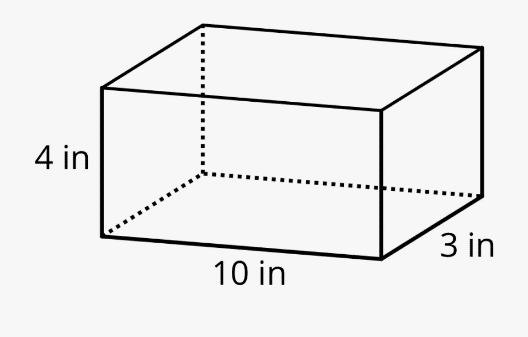
7.



**Total Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Faces** | **Area** | **Total** |
| Front & Back |  |  |
| Top & Bottom |  |  |
| Side/Side |  |  |

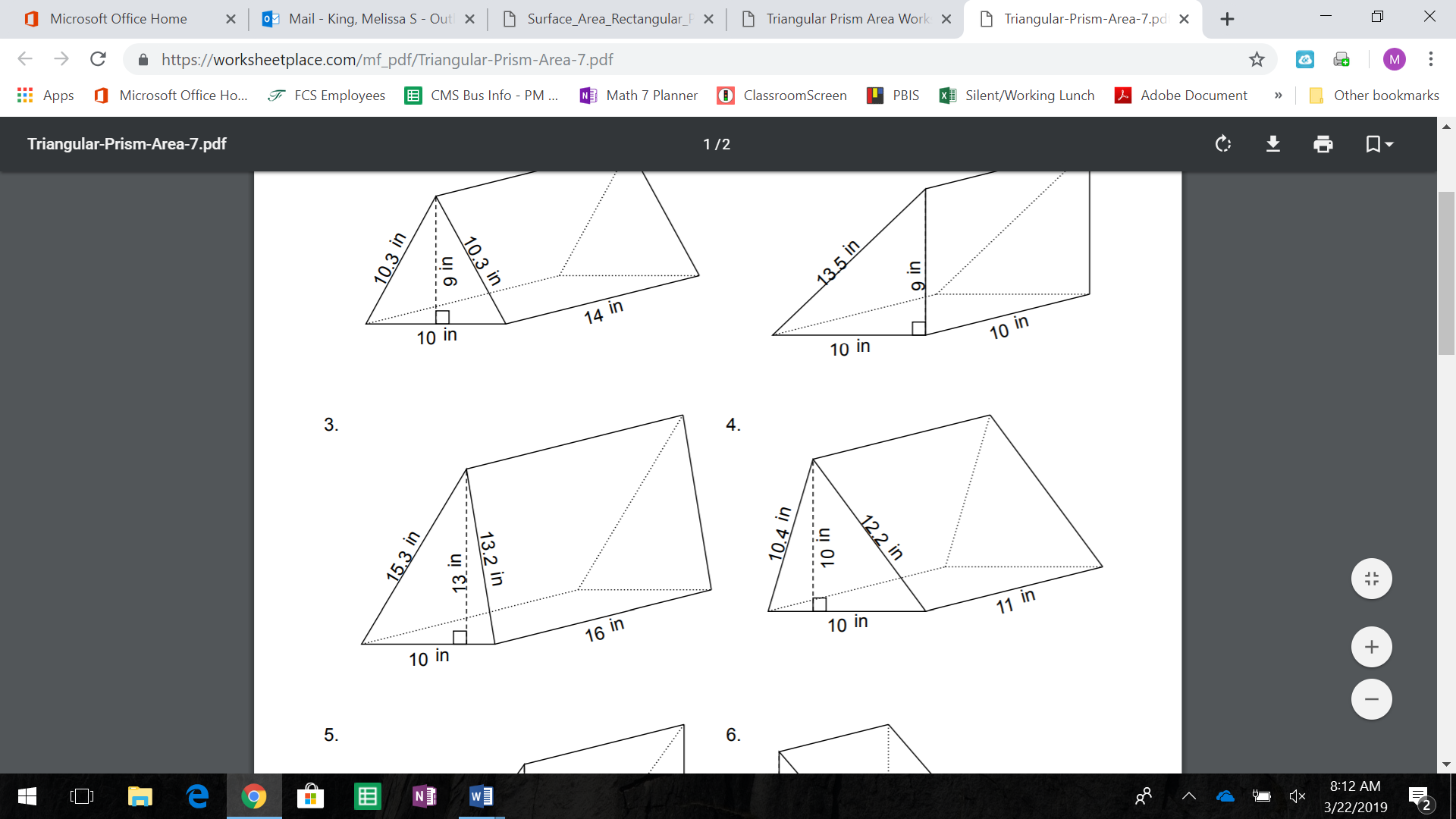
8.



**Total Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Faces** | **Area** | **Total** |
| Triangle 1  Triangle 2 |  |  |
| Rectangle 1  Rectangle 2 |  |  |
| Rectangle 3 |  |  |

9.



**Total Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**